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AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF CLAIMS:

1. (original) An information record medium on which there are recorded:
 - video information to indicate a main-video;
 - sub-video information to indicate a sub-video displayable at least partially over the main-video; and
 - sub-video control information including (i) sub-frame range information to indicate at least a partial area of the sub-video as a sub-frame and (ii) shadow display control information to add a shadow selectively to a sub-video part within the sub-frame in accordance with an alpha value indicating transparency of the sub-video part, and display the sub-video part to which the shadow is added over the main-video.
2. (original) The information record medium according to claim 1, wherein
 - the shadow display control information includes information to add the shadow relative to an opaque part of the sub-video part within the sub-frame having the alpha value equal to or more than a predetermined value or threshold, or relative to an transparent part of the sub-video part within the sub-frame having the alpha value equal to or less than a predetermined value or threshold, and display the part to which the shadow is added.
3. (original) The information record medium according to claim 1, wherein

the shadow display control information includes information to add the shadow relative to a letter or design having an outline within the sub-frame, and display the letter or design to which the shadow is added.

4. (original) The information record medium according to claim 1, wherein

the shadow display control information includes information to add the shadow relative to an outline of the sub-frame, and display the outline to which the shadow is added.

5. (original) The information record medium according to claim 1, wherein

the shadow display control information includes information to virtually define a disposition of a light source relative to the shadow and a disposition of a surface on which the shadow is projected.

6. (original) The information record medium according to claim 1, wherein

the shadow display control information includes information to define color of the shadow.

7. (original) The information record medium according to claim 1, wherein

the shadow display control information includes information to define a blurring degree of the shadow.

8. (original) The information record medium according to claim 1, wherein

the main-video information, the sub-video information and the sub-video control information are divided into predetermined packet units and multiplexed, and further

streamed relatively into a video stream composed of the divided main-video information, a sub-picture stream composed of the divided sub-video information and a control information stream composed of the divided sub-video control information.

9. (original) An information record apparatus comprising:

- a first record device for recording video information to indicate a main-video;

- a second record device for recording sub-video information to indicate a sub-video displayable at least partially over the main-video; and

- a third record device for recording sub-video control information including (i) sub-frame range information to indicate at least a partial area of the sub-video as a sub-frame and (ii) shadow display control information to add a shadow selectively to a sub-video part within the sub-frame in accordance with an alpha value indicating transparency of the sub-video part, and display the sub-video part to which the shadow is added over the main-video.

10. (original) An information record method comprising:

- a first record process of recording video information to indicate a main-video;

- a second record process of recording sub-video information to indicate a sub-video displayable at least partially over the main-video; and

- a third record process of recording sub-video control information including (i) sub-frame range information to indicate at least a partial area of the sub-video as a sub-frame and (ii) shadow display control information to add a shadow selectively to a sub-video part within the sub-frame in accordance with an alpha value indicating transparency of the sub-video part, and display the sub-video part to which the shadow is added over the main-video.

11. (currently amended) An information reproduction apparatus for reproducing ~~the~~ an information record medium ~~according to claim 1~~ on which there are recorded: video information to indicate a main-video; sub-video information to indicate a sub-video displayable at least partially over the main-video; and sub-video control information including (i) sub-frame range information to indicate at least a partial area of the sub-video as a sub-frame and (ii) shadow display control information to add a shadow selectively to a sub-video part within the sub-frame in accordance with an alpha value indicating transparency of the sub-video part, and display the sub-video part to which the shadow is added over the main-video,

said information reproduction apparatus comprising:

a reproduction device for reproducing the video information, the sub-video information and the sub-video control information;

a display output device capable of displaying and outputting the reproduced sub-video information over the reproduced video information; and

a control device for controlling the display output device to add a shadow to the sub-video part within the sub-frame, and display the sub-video part to which the shadow is added over the main-video, on the basis of the shadow display control information in the reproduced sub-video control information.

12. (currently amended) An information reproduction method of reproducing ~~the~~ an information record medium ~~according to claim 1~~ on which there are recorded: video information to indicate a main-video; sub-video information to indicate a sub-video displayable at least partially over the main-video; and sub-video control information including (i) sub-frame

range information to indicate at least a partial area of the sub-video as a sub-frame and (ii) shadow display control information to add a shadow selectively to a sub-video part within the sub-frame in accordance with an alpha value indicating transparency of the sub-video part, and display the sub-video part to which the shadow is added over the main-video,

said information reproduction method comprising:

a reproduction process of reproducing the video information, the sub-video information and the sub-video control information; and

a control process of controlling a display output device capable of displaying and outputting the reproduced sub-video information over the reproduced video information to add a shadow to the sub-video part within the sub-frame, and display the sub-video part to which the shadow is added over the main-video, on the basis of the shadow display control information in the reproduced sub-video control information.

13. (original) An information record reproduction apparatus comprising:

a first record device for recording video information to indicate a main-video;

a second record device for recording sub-video information to indicate a sub-video displayable at least partially over the main-video; and

a third record device for recording sub-video control information including (i) sub-frame range information to indicate at least a partial area of the sub-video as a sub-frame and (ii) shadow display control information to add a shadow selectively to a sub-video part within the sub-frame in accordance with an alpha value indicating transparency of the sub-video part, and display the sub-video part to which the shadow is added over the main-video;

a reproduction device for reproducing the video information, the sub-video information and the sub-video control information;

a display output device capable of displaying and outputting the reproduced sub-video information over the reproduced video information; and

a control device for controlling the display output device to add a shadow to the sub-video part within the sub-frame, and display the sub-video part to which the shadow is added over the main-video, on the basis of the shadow display control information in the reproduced sub-video control information.

14. (original) An information record reproduction method comprising:

a first record process of recording video information to indicate a main-video;

a second record process of recording sub-video information to indicate a sub-video displayable at least partially over the main-video; and

a third record process of recording sub-video control information including (i) sub-frame range information to indicate at least a partial area of the sub-video as a sub-frame and (ii) shadow display control information to add a shadow selectively to a sub-video part within the sub-frame in accordance with an alpha value indicating transparency of the sub-video part, and display the sub-video part to which the shadow is added over the main-video;

a reproduction process of reproducing the video information, the sub-video information and the sub-video control information; and

a control process of controlling a display output device capable of displaying and outputting the reproduced sub-video information over the reproduced video information to add a

shadow to the sub-video part within the sub-frame, and display the sub-video part to which the shadow is added over the main-video, on the basis of the shadow display control information in the reproduced sub-video control information.

15. (currently amended) A computer program product for a record control to control a computer disposed at ~~the~~ an information record apparatus ~~according to claim 9~~ comprising:
a first record device for recording video information to indicate a main-video; a second record device for recording sub-video information to indicate a sub-video displayable at least partially over the main-video; and a third record device for recording sub-video control information including (i) sub-frame range information to indicate at least a partial area of the sub-video as a sub-frame and (ii) shadow display control information to add a shadow selectively to a sub-video part within the sub-frame in accordance with an alpha value indicating transparency of the sub-video part, and display the sub-video part to which the shadow is added over the main video,

said computer program product making the computer function as at least a part of the first record device, the second record device and the third record device.

16. (currently amended) A computer program product for a reproduction control to control a computer disposed at ~~the~~ an information reproduction apparatus ~~according to claim 11, for~~ reproducing an information recording medium on which there are recorded: video information to indicate a main-video; sub-video information to indicate a sub-video displayable at least partially over the main-video; and sub-video control information including (i) sub-frame range information to indicate at least a partial area of the sub-video as a sub-frame and (ii) shadow display control information to add a

shadow selectively to a sub-video part within the sub-frame in accordance with an alpha value indicating transparency of the sub-video part, and display the sub-video part to which the shadow is added over the main-video, said information reproduction apparatus comprising: a reproduction device for reproducing the video information, the sub-video information and the sub-video control information; a display output device capable of displaying and outputting the reproduced sub-video information over the reproduced video information; and a control device for controlling the display output device to add a shadow to the sub-video part within the sub-frame, and display the sub-video part to which the shadow is added over the main-video, on the basis of the shadow display control information in the reproduced sub-video control information

said computer program product making the computer function as at least a part of the reproduction device, the display output device and the control device.

17. (currently amended) A computer program product for a record reproduction control to control a computer disposed at ~~the~~ an information record reproduction apparatus ~~according to claim 13~~ comprising: a first record device for recording video information to indicate a main-video; a second record device for recording sub-video information to indicate a sub-video displayable at least partially over the main video; and a third record device for recording sub-video control information including (i) sub-frame range information to indicate at least a partial area of the sub-video as a sub-frame and (ii) shadow display control information to add a shadow selectively to a sub-video part within the sub-frame in accordance with an alpha value indicating transparency of the sub-video part, and display the sub-video part to which the shadow is added over the main video; a reproduction device for reproducing the video information, the sub-video information

and the sub-video control information; a display output device capable of displaying and outputting the reproduced sub-video information over the reproduced video information; and a control device for controlling the display output device to add a shadow to the sub-video part within the sub-frame, and display the sub-video part to which the shadow is added over the main-video, on the basis of the shadow display control information in the reproduced sub-video control information,

said computer program product making the computer function as at least a part of the first record device, the second record device, the third record device, the reproduction device, the display output device and the control device.

18. (original) A data structure including a control signal, said structure including:

video information to indicate a main-video;

sub-video information to indicate a sub-video displayable at least partially over the main-video; and

sub-video control information including (i) sub-frame range information to indicate at least a partial area of the sub-video as a sub-frame and (ii) shadow display control information to add a shadow selectively to a sub-video part within the sub-frame in accordance with an alpha value indicating transparency of the sub-video part, and display the sub-video part to which the shadow is added over the main-video.